

Page 1 of 1

10

[illegible]



Castle Metals®

A. M. Castle & Co.


PACKING SLIP/
CERTIFICATE OF CONFORMANCE

Page 1 of 1

Shipment No:3346886

Ship From: A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN		Sold To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	Ship To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN	Deliver To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA
Date Shipped 02-AUG-17	F.O.B. ORIGIN	Freight Terms Prepaid	Carrier MANITOULIN	BOL No 3346886-2

Shipment Details	Final Destination Branch - TOR
-------------------------	---------------------------------------

Order No 4840563	Line No 1	Item No 5881	Description 0.7500.RD.17CR-4NI.STAINLESS.CF.H1150.132.00000-156.0000 SPECIFICATIONS: AMS 5643 Email P/s and certs to: clavoie@dartaero.com	
Purchase Order No 37241	Part Number		Ordered Qty 12.00 FT	Invoice Qty 12.0833 FT
Details ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S Email P/s and certs to: clavoie@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS				
Delivery No. 121209167	Mill VALBRUNA CORPORATION	Heat Number  268932	Mech Id 1	PCS 1
			Width (IN)	Length (IN) 145.0000
				Shipped Qty(LBS) 18.1492

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut by the customer cannot be returned for credit.

Reviewed by Authorized Castle Metals Representative:

SHIPPED AUG 02 2017

Date:

Name: *cl. Randin*



Date Printed: 02-AUG-2017 04:05:19 PM

STRAIGHT BILL OF LADING - SHORT FORM - ORIGINAL - NOT NEGOTIABLE RECEIVED. Subject to the classification and tariffs in effect on the date of issue of this Bill of Lading. The property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.		Shipper No.: 3346886-2 FROM AT: A. M. Castle & Co. 2150 ARGENTIA ROAD MISSISSAUGA ON L5N 2K7 CAN
Consigned To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY ON K6A 1K7 CAN		Delivery instructions: ALL LOADS MUST BE TARPED. DELIVER PACKING LIST AND TEST REPORTS OR CONSIGNEE WILL REFUSE.
Carrier Name: MANITOULIN		Payment Terms: Prepaid REMIT FREIGHT INVOICES TO: RayTrans Management, Inc. PO Box 1210 Washington PA 15301
		Additional Insurance Coverage: The agreed or declare value for the property is hereby specifically stated by the shipper to be not exceeding: _____ per _____

Shipment Breakdown:

Quantity	Packaging	Class	Commodity
1	BUNDLE	FAK 50	Metal Product

Shipment Weights:

Product	18 LBS
Dunnage	0 LBS
Gross	18 LBS

ORDER DETAIL:

Customer PO	Sales Order No.	Line No.	Castle Item No.	Quantity Shipped	Castle UOM
37241	4840563	1	5881	18	LBS

Subject to Section 7 of Conditions of applicable bill of Lading. If this shipment is to be delivered to the consignee without recourse to the consignor, the consignor shall sign the following statements. The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.	If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE: Where the rate is dependent on value, the shippers are required to state specifically in writing the agreed or declared value of the property.
THIS SHIPMENT IS TO BE TENDER RECEIVED AND TO BE CARRIED SUBJECT TO ALL TERMS AND CONDITIONS OF THE STEAMSHIP COMPANIES CURRENT FORM BILL OF LADING	The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding
THIS IS TO CERTIFY THAT THE ABOVE NAMED ARTICLES ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED AND LABELED, AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION.	Customer is responsible for all shipping documents and compliance with United States and Canadian laws, including but not limited to U.S. and Canadian Export laws and regulations.

Shipper No.: 3346886-2

SHIPPER, PER:

insert creator's name
Per

Date
Driver's Signature
PROOF OF DELIVERY:

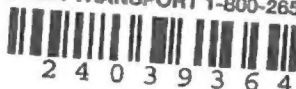
Signature / Date
Name

 Please Print Name Here

All pages must be signed

Page 1 of 1

MANITOULIN TRANSPORT 1-800-265-1485



TEST REPORT
 ENVELOPE
 MUST SHIP
 WITH MATERIAL



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO37241**

Purchase Order Date 7/27/2017

PO Print Date 7/27/2017

Page Number 1 of 2

Order From :
METAUX CASTLE
P.O. BOX 4090 STN A
TORONTO, ONTARIO M5W OE9
CANADA

VU-MET002

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

E-MAILED

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

Ship Via: Yours ppd

Ship Acct:

Buyer

Diane Baker

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

USD

FOB

Destination-Collect

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M174PH-H1150R0.750	17-4PH SS Round Bar H1150 0.75" dia.	7/27/2017 Yes 7/27/2017 Aug 3-4	FN	12.00	\$25.35	\$304.20

David D.

2	71401-45	Procurement Quality Clauses	7/27/2017 Yes 7/27/2017 Aug 3-4		1.00	\$0.00	\$0.00
---	----------	--------------------------------	---------------------------------------	--	------	--------	--------

Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

SEP 17-8-8

Line Total: \$304.20

Line Total: \$0.00

Note:

7/27/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO37241**

Purchase Order Date 7/27/2017

PO Print Date 7/27/2017

Page Number 2 of 2

Order From :

VU-MET002

METAUX CASTLE
P.O. BOX 4090 STN A
TORONTO, ONTARIO M5W OE9
CANADA

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

Ship Via:

Yours ppd

Ship Acct:

Buyer

Diane Baker

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

USD

FOB

Destination-Collect

PO Total:

\$304.20

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 1

Change Date: 7/27/2017

Diane Baker

From: Linda Lacelle
Sent: Thursday, July 27, 2017 12:00 PM
To: Diane Baker
Cc: David Duval
Subject: FW: 17-4 H1150
Attachments: 20170727115017.pdf

Can you please order : M174PH-H1150R0.750 - 12'

Merci

L

-----Original Message-----

From: Desbiens, Marc [mailto:mdesbien@amcastle.com]
Sent: Thursday, July 27, 2017 11:52 AM
To: Linda Lacelle <llacelle@dartaero.com>
Cc: Diane Baker <dbaker@dartaero.com>
Subject: FW: 17-4 H1150

Hi Linda,

12' x 17-4 PH - H1150 round bar .750

\$ 25.35 Ft 8-9 days (mill cert attached)

Thanks

Marc Desbiens
Inside sales representative
Castle Metals, Montreal, QC
Direct line 514-795-8176
1-800-806-6660 ext 52226
Fax # 1-855-892-6370
Customized Supply Chain Solutions for Your Metal Needs

From: Linda Lacelle [mailto:llacelle@dartaero.com]
Sent: Thursday, July 27, 2017 7:45 AM
To: Desbiens, Marc
Cc: David Duval; Diane Baker

Subject: FW: 17-4 H1150

Hi Marc,

Can you please advise P & D on 12' x 17-4 PH - H1150 round bar .750 ?

Thx

L

From: David Duval

Sent: Wednesday, July 26, 2017 3:44 PM

To: Linda Lacelle <llacelle@dartaero.com>

Subject: 17-4 H1150

Hi,

I had Kim to enter the p/n M174PH-H1150R0.750.

Could we order some material as soon as possible please (12 feet) Thanks.

DAVID DUVAL

Production Engineering Supervisor

DART AEROSPACE

T 1 613 632-5200 > 234

F 1 613 632-5246

1 800 556- 4166

www.dartaerospace.com

This E-mail may contain proprietary information and may be confidential. You are to treat this material in accordance with your company's confidentiality policies and limit any distribution accordingly. If you are not the intended recipient of this E-mail, you are hereby notified that any dissemination, distribution or copying of this message is strictly prohibited. If you received this message in error, please delete it immediately.



Acciaierie Valbruna S.p.A.

PO 375722 / IAC 5881

38100 VICENZA (Italia) - Viale della scienza, 28 z.i.
Telefono 0444.988211 - Fax 0444.983838
Stab.: 38100 BOLZANO (Italia) - Via A. Volta, 4/37
Telefono 0471.924111 - Fax 0471.924497

CERTIFICATO DI COLLAUDO - ABNAHMEPRUEFZEUGNIS - INSPECTION CERTIFICATE - CERTIFICAT DE RECEPTION

In conformità a: EN 10204 (2004) , 3.1

Certificato nr. MEST874047 / 2016 /

Cliente / destinatario/Purchaser/Client
VALBRUNA STAINLESS INC.
2400 TAYLOR STREET WEST
46801 - FORT WAYNE, IN 46801 - US

Stato di fornitura: Hot rolled - Aged Peeled
Resoled/Polished
Lieferzustand: Delivery state
Etat de livraison

Produttore:
Hersteller/Hersteller/producer
ACCIAIERIE VALBRUNA S.P.A.

Ordine nr: 46937 375722 CASTLE
Bestell-Nr./Your order
Commande

Tipo di Elaborazione: E+AOD
Erzeugnisart
Shipping process
Mode d'élaboration

Marchi di Fabbrica:
Zeichen des Unternehmens
Trade marks
Signes de l'usine productrice



Conferma ordine nr: EI16002999
Werk/Our OrderRef. nr.

Qualità: T-530 H1150 #5881
Virtuosität/Qualitätsklasse

Funzione del Collaudatore:
Bemerkung des Werkseinsprechenden
Inspector's duty/Personnel du Tauxier

MR

Avviso di Spedizione: D-VI16012858
Lieferanweisung/Shipping instruction

Marca: V17411
Markenbezeichnung
Brand / Marque

Funzionatura: 630
Nennleistung
Loading
Marquage

Melted and manufactured in Italy No welding or weld repair Material free from Mercury contamination

We declare that the finished product is checked for radioactive contamination through Portal System when it leaves the production plant.

QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER ACCORDING TO ISO 9001 : 2008, ISO/TS16949 : 2009, AS 9100C

The Quality Management System is Certified acc. Pressure Equipment Directive '97/23/EC' Annex 1, 1.4.3 by TÜV and LLOYD'S
Any act of tampering, modification, alteration, counterfeiting and/or falsification and/or any other action which modifies the contents of this test certificate shall constitute a violation of applicable civil and criminal laws. Acciaierie Valbruna shall protect its rights and interests before any competent court, authority and jurisdiction.

Maxwell and/or Valplus grades/products are manufactured with Indie techniques to control composition, distribution, size and shape of non-metallic inclusions for improved machinability.

The supplied product conforms to requirements expressly requested by the purchaser and conforms to requirements specified by certified norms and standards. Should the product be used for more severe, critical and/or in any case different applications than those the material is generally intended for, any different and/or supplementary requirements shall be specifically demanded, at least, upon order of the Product by the Purchaser, Acciaierie Valbruna SpA shall not be responsible for any improper use of the Products.

Castle Metals

HEAT NUMBER 268932
MECHANICAL ID _____
ITEM CODE 5881
LOT NUMBER _____
PO NUMBER 375722
RECEIPT DATE 8-11-16
SUPPLIER Valbruna
SPECIFICATION _____
LCS -
COMMENT _____
APPROVED [Signature]

Vicenza, 23/05/16

VCO009

(Mod. MCE2)

collaudatore di stabilimento / der Werksachverständige / Works Inspector / L'agent d'usine

M. Rizzotto

Pagina - 3 di 3



Acciaierie Valbruna S.p.A.

PO 375722 JAC5881

38100 VICENZA (Italia) - Viale della scienza, 25 z.l.
Telefono 0444.988211 - Fax 0444.983636
Stab.: 38100 BOLZANO (Italia) - Via A. Volta, 4/37
Telefono 0471.924111 - Fax 0471.924497

CERTIFICATO DI COLLAUDO - ABNAHMEPRUEFZEUGNIS - INSPECTION CERTIFICATE - CERTIFICAT DE RECEPTION

In conformità a: EN 10204 (2004), 3.1

Certificato nr. MEST874047 / 2016 /

Cliente / Besizer/Purchaser/Clien:
VALBRUNA STAINLESS INC.
2400 TAYLOR STREET WEST
46801 - FORT WAYNE, IN 46801 - US

Stato di fornitura: Hot rolled - Aged Peeled
Lieferzustand: Lieferzustand
Delivery state: Hot rolled
End use: End use

Produttore:
Hersteller/Hersteller/Hersteller
ACCIAIERIE VALBRUNA S.P.A.

Ordine nr: 46637 375722 CASTLE

Tipo di Elaborazione: E+AO
Erzählungsart: Erzählungsart
Lieferung: Lieferung
Modo d'elaborazione: Modo d'elaborazione

Marchi di Fabbrica:
Zeichen des Herstellers
Trade marks
Signe de l'usine productrice



Conferma ordine nr: EI16002999

Qualità: T-830 H1150 #6881

Funzione del Collaudatore:
Stempel des Werksachverständigen
Inspector's stamp/Plaque de l'inspecteur

MR

Avviso di Spedizione: D-VI16012856

Marca: V174/1

Puntatura: 630

Mechanical Properties										
TEST	Provenza / Herkunft Lieferanten / Hersteller Lieferanten / Hersteller Lieferanten / Hersteller	°F	°C	Resistenza Mechanical Strength			Elongazione laterale Lateral elongation Lateral ex			Shear
		min	max	30	30	30	-	-	-	-
B	10X10	68	L	120	133	136	1,256	1,236	1,241	

Mechanical properties according to ASTM A370.
Delta Ferrite according to AMS 2315.

Chemical Analysis										
Colore / Color Farbe / Farbe	max	1.00	1.00	16.00	0.50	3.00	3.00	0.045	0.025	-
288932	C %	0.041	0.37	0.51	15.58	0.16	3.35	4.73	0.025	0.025
	Si %									
	Mn %									
	Cr %									
	Mo %									
	Cu %									
	Ni %									
	P %									
	S %									
	Ta %									
	Nb %									
	Cb(Nb) %									
	Nb%+Ta%									
288932		0.264			0.285					

Macro etch test : satisfactory.
Reduction ratio = 103,2 : 1
Material solution annealed 1904°F for 1 h,
air cooled to below 90°F.
Age-hardened 1150°F for 4 h, air cooled to below 90°F
Material is DFARS Compliant

Sono state soddisfatte tutte le condizioni richieste
Die geforderten Anforderungen sind erfüllt
The material has been furnished in accordance with the requirements
Le matériel a été livré conforme aux exigences

Controllo antiriscaldamento: OK
Vorwärmungsprüfung: Sperrwärmungsprüfung
Annealing testing performed OK
Controllo antiriscaldamento: OK

Controllo visivo e dimensionale: soddisfa le esigenze
Sichtprüfung und Ausmessung: ohne Beanstandung
Visual inspection and dimensional check: satisfactory
Controllo visivo e dimensionale: satisfait

Vicenza, 23/05/16

VCO006

(Mod. MCE2)

Il collaudatore di stabilimento / der Werkachverständige / Works Inspector / L'agent d'usine

M. Rizzoli

Pagina - 2 di 3



Acciaierie Valbruna S.p.A.

36100 VICENZA (Italia) - Viale della scienza, 25 z.I.
Telefono 0444.956211 - Fax 0444.956305
Stab.: 36100 BOLZANO (Italia) - Via A. Volta, 4/37
Telefono 0471.924111 - Fax 0471.924487

CERTIFICATO DI COLLAUDO - ABNAHMEPRUEFZEUGNIS - INSPECTION CERTIFICATE - CERTIFICAT DE RECEPTION

In conformità a: EN 10204 (2004) , 3.1

Certificato nr. MEST874047 / 2016 /
Prüfung/Teiltrial

Cliente / Specifier/Purchaser/Cliet
VALBRUNA STAINLESS INC.
2400 TAYLOR STREET WEST
46801 - FORT WAYNE, IN 46801 - US

Stato di fornitura: Hot rolled - Aged Peeled
Lieferzustand: Delivery state: Hot rolled
Etat de livraison: Reeled/Polished

Produttore:
Hersteller/Hersteller/Produced
ACCIAIERIE VALBRUNA S.P.A.

Ordine nr: 48637 375722 CASTLE
Bestell
Total order
Commande

Tipo di Elaborazione: E+AOD
Erweiterung
Melting process
Mode d'élaboration

Marchi di Fabbrica:
Zeichen des Lieferanten
Trade marks
Signes de l'usine productrice



Conferma ordine nr: EI16002999
Vers/Ou Ordre/Et de

Qualità: T-830 H1150 #5881
Voraussetzung/Qualität

Punzone del Collaudatore:
Stempel des Verleiher/Verordnenden
Inspection's stamp/Plaque de l'essayeur

MR

Avviso di Spedizione: D-VI16012656
Lieferungs/Frachtung INWILL.

Marcia: V174/1
Markenbezeichnung
Brand / Marque

Punzonatura: 630
Kontrollierung
Marking
Marquage

SPECIFICHE:

Note:

Anforderungen / Requirements / Exigences

Anforderungen / Notes / Notes

3174-04 38 630 H1150 AGED
AISI 830
AMS 2303 F
AMS 5643 T S17400 H1150
ASME SA564 2013 S17400 H1150 (0)
ASTM A564 2013 S17400 H1150

(0)SECTION II PT.A 2013 EDITION

DU 375722 - JAC 5881

Tolleranza: ASTM A484-15 TABLE 7

Toleranze / Abweichungen / Tolerances							
Pos. nr. Pos. Nr. Pos. no.	Objetto Gegenstand Object de produit	Dimensioni - in Abmessungen Dimensions	Lunghezza - in Länge Longueur	Colore Farbe Couleur	Pezzi Stückzahl Pièces	Peso - LB Gewicht Poids	Lotto nr. Lose, Lot nr. Lot no.
0010	Round	0,7500	144/ 148	268832		1.717	529909820

TEST ALLO STATO DI FORNITURA

Test on delivery condition / Prüfung auf lieferbarem Produkt / Test à l'état de fourniture / Prueba sobre el material así como entregado

1) Lieferzustand / Zustand / État de livraison / Estado de entrega										
TEST	Prova / Prüfung Prova / Prüfung Prova / Prüfung	°F	Prova / Prüfung Prova / Prüfung Prova / Prüfung	Snervamento Zugversuch Essai de traction Fp 0,2% Rp0,2	Snervamento Zugversuch Essai de traction Fp 0,2% Rp0,2	Resistenza Zugversuch Essai de traction Rm Rm	Atterimento Zugversuch Essai de traction E 4d E 4d	Strizione Zugversuch Essai de traction RA RA	Resistenza Zugversuch Essai de traction Rm Rm	Durezza Härte Dureté HB
Valori richiesti Anforderungen Valeurs requises		min max		105	-	135	-	50	-	277 352
A	12,5	68	L	137		147	15	63		333

Test On Delivering Condition

Test on delivery condition / Prüfung auf lieferbarem Produkt / Test à l'état de fourniture / Prueba sobre el material así como entregado

TEST	min	max
A HRC	28,0	32,4

TEST ALLO STATO DI FORNITURA

Test on delivery condition / Prüfung auf lieferbarem Produkt / Test à l'état de fourniture / Prueba sobre el material así como entregado

TEST	min	max
A Delta Ferrite		5,0
A RATINGS FREQUENCY		1,10
A RATINGS SEVERITY		1,05

Vicenza, 23/05/16

VCO008

(Mod. MCE2)

Il collaudatore di stabilimento / der Werksachverständige / Works Inspector / L'agent d'usine

M. Rizzotto

Pagina - 1 di 3